Proposal to add Arabic letter for Swahili

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This document requests the addition of an Arabic letter character (ARABIC LETTER YEH WITH FOUR DOTS BELOW) used in 20th century manuscripts of Muhamadi Kijuma in Swahili (ISO 639-3: swa). The letter was used for the palatal nasal, (ny) in Latin orthography.

Muhammad bin Abubakar bin Umar al-Bakriy (1885-1845), known as Muhamadi Kijuma (or Kijumwa), was a writer, poet, translator in the Swahili language. His manuscripts are collected in Kenya, Tanzania and in Europe. In 2022, professor of Literatures African Languages at University of Bayreuth, Clarissa Vierke, co-author of *Muhamadi Kijuma – Texts from the Dammann Papers and other Collections* 2010, said "[Muhamadi Kijuma] supplied many European researchers with manuscripts of Swahili poetry and introduced also them to the manuscript culture and Islamic poetry. He truly shaped our understanding of Swahili in Arabic script and most of the manuscripts stored in London, Hamburg, or Berlin nowadays are in his handwriting, including glossaries and explanations."

Character to be added

Codepoint	Isolated	Final	Medial	Initial	Name
U+10EC7	ڀ	ڀ	#	ڍ	ARABIC LETTER YEH WITH FOUR DOTS BELOW

Annotations and properties

NamesLists.txt

The following annotations are recommended for NamesList.txt:

10EC7 ARABIC LETTER YEH WITH FOUR DOTS BELOW

* Swahili manuscripts

UnicodeData.txt

10EC7; ARABIC LETTER YEH WITH FOUR DOTS BELOW; Lo; 0; AL;;;;; N;;;;;

ArabicShaping.txt

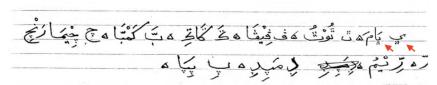
10EC7; DOTLESS YEH WITH 4 DOTS BELOW; D; YEH

Confusables

The arabic letter yeh with four dots below has forms confusable with forms of \$\to\$ U+0680 arabic letter beheh.

Examples

- ny palatal /n/ nyama 'meat'
- t cerebral [retroflex] /t/ toto 'small' [= /ch/ Kisiu, marked by Dammann, but written in the texts only as /t/ without diacritic]
- v dentilabial voiced /v/ viva 'ripen' (Kiunguja: iva)
- c chachache 'few' (Kiunguja: chache)
- mb k^hamba 'crab'
- ranji ranji 'colour'. M.K. probably also pronounced the adjective -ema in class 5 'good' as jema
- nd with cerebral pronunciation nd imo it is inside. In Lamu one most commonly hears /nd /.
- d with interdental or postdental pronunciation. The only example given by M.K. is the nasal compound in m(u)pendi 'lover'.
- p pipa 'barrel'



A note on Arabic script: SBB Hs. or. 9910

Figure 1. ARABIC LETTER YEH WITH FOUR DOTS BELOW and its transliteration (ny) in Miehe & Vierke 2010, p. 169 in "ny" and "nyama".

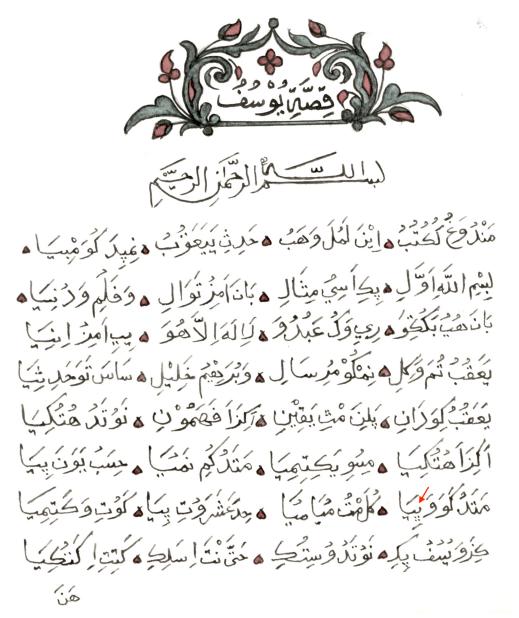


Figure 2. Arabic letter yeh with four dots below in *Qiṣṣati Yūsufu (Hs. or. 9893)*, p. 1.

صَانِوْسِفَ كِلُو ﴿ الْوُونَ وِرُو ﴿ وَنَسِمْتُ رُسِنُو ۗ مُبُنِ وِقُ لَغِيا المِنْ وَكِ بَابَ مِهِ سِمْتُ سِنْ وَنْنِي نَعْ مَعَنَ مِ سِمَنْ حِلْ نَمْسًا كُلُسِدُ لِمُوْرِ وَكُورِي يُكِ كُرِد وَ الْمُصْلِر بُغِيُ مَنْ عَ مِنْ وَمُوتِ مَلَ فَعَ وَ إِلَيْ بِغِنَ بَنَعَ وَرِي مِنْ كُنْتَ ان وورمني من وهما دهن سهت و بوسف مو مبيا جابريل املياه جم سِمْت امتياه بين ممكث ا يُبِيتُوْ نِ ﴿ فِي سِمْتُ جَعَٰنِ ﴿ كَيْكُنَامُوْمِيْنِ ﴿ مُنْكُ لَّمْ مَا كَالِقُ سَلَامُ مَا لَهُ أَكْسُلُمُ مَ الْحُلُمُ مُلَوِّكُ مِنْهُمْ إِلَى مُلْكُرُ مِنْهُما نَىٰ يَعَقَّٰتُ ﴾ جِابِرْيلِ مُحِثُ ﴿ وَمَنْ كَالْرُبُ مياه دارنل كرساه كان مزايد نيعقبُ سَرْفُ ﴿ أَمُّ السِّحُلُفُ ﴾ سِمِنْ أَمْ السِّحُلُفُ ﴾ سِمِنْ أَمْ رُودُودُ وَمُنْ الْمُرْدِ بَيَالِ أَلِمْهِ لَا هُ لُطُلُطُ لِمُتُ لَا فِي أُورِكُ يِنَ هُ مُحْتَ لُمْ

Figure 3. Arabic letter yeh with four dots below in *Qiṣṣati Yūsufu (Hs. or. 9893)*, p. 2.

بعد وقِسَّانُ قَارِضِ عَلَى الله

Figure 4. ARABIC LETTER YEH WITH FOUR DOTS BELOW in *Qiṣṣat Qādhi (Hs. or. 9893)*, p. 73. Note: the final form has a complete shape in the next example from p. 76.

عَنَّى كَايَ قُرِيْبُ أَلِي مُكْ كَمِيا حَطَّا بْي غِيلِكَا هَكِ وَالْ

Figure 5. Arabic letter yeh with four dots below in Qiṣṣat Qādhi (Hs. or. 9893), p. 76.



Figure 6. ARABIC LETTER YEH WITH FOUR DOTS BELOW in *Utendi wa Safāri* (SBB Hs. or. 9896) in "Tukafanya" and "kuonyana". Note: the final form has a complete shape in the next example from the following page.

سُعُدُى وَبُرِ عَلَى وُسِرُو مِنْيرِ عَكِرُ كُرُوا كِيرِ فَمْيِكَ نُصُ يُدِيا تُكِنينَ مُثَنِّينَ وَ أُكِياتَ مِسْنِ نِ وَتُكْفِيا شَمْتَانِ وَ أُكْكِتِسَ بِيا وُكَا وِ مُشَرُّن و هَا سُلِيا مُنْن وَكُولُ تُكْتَمَانِ وَكُلَّ لُلَّهُمَانِ وَكُلَّ لُلِّكُولًا مِي شَهْتُ مَعْ مُن لَكُ عَلَيْ كُنُ طِفَ مُ كُرِيًّا لِرَمْ كَا مُ مِيْسِ بَيْ يُمْيَا بَكُوْ مَيْكَتِكِ • نَكُّكُلُ هَكِلُهُ لَكُرْدِ عَلْكِ • خِرامُ كُرِجِكِ يَتُ الشُّوكِ فِي مِلْ اللَّهُ كُرِمِكِ مِكُنَّ نُصُ يُدِكًا مِكُنَّ لَكُ إِنكَا أُكْنِيرًا كِكُ أَمُ ﴿ نُوبِتُ وَنَسْمُ ﴿ تُلُوعُنَ كُمَّامُ ﴿ كِسَ نُكَعَرِمِهَا تُكَانِرٌ تَكُوا ﴿ كُرِّمُ يُو مُنْكُو ﴿ تُكُنُولِ مَشُو ﴿ تَكُوا تُكَسِكِلِيا مَبِلِ بَهُرِعَ وَكُوْرُ كُنُبُرِكِا وَوَالْكِنْشِكِي وَيُكُنِي كُنُورُ كُنُبُ كُنُمُ بِيَا تْكَشُكُ مْفُولِ * بَحْرُكُهِل بَيْإِنِ * تُكْتِمْبِيا كَثَانِ * فُرُاحُ رِكَتِمْ لَّكُ إِنْ قَابُرِ * يُشِغُ مُنْصُوْرِ * مُنْ يَحُظُّ زُرِ * عَجُبُ وُ لَعَلِيا كَإِنْ جِوِ بِفِ لَكِ م يُدِ شِوِمُعًا كَاكِهِ هِ يَنْنُ كَاكِ م مُسَمَى أَعْلَى سُرُج كِيرِ شِوِ • يَن يَغُيِّط بَجِو • نَمْنَارَا وَ سَوِ • الرَبانَ وَو يِها

Figure 7. ARABIC LETTER YEH WITH FOUR DOTS BELOW in *Utendi wa Safāri* (SBB Hs. or. 9896) in "kinyezi" and "Mwenye".

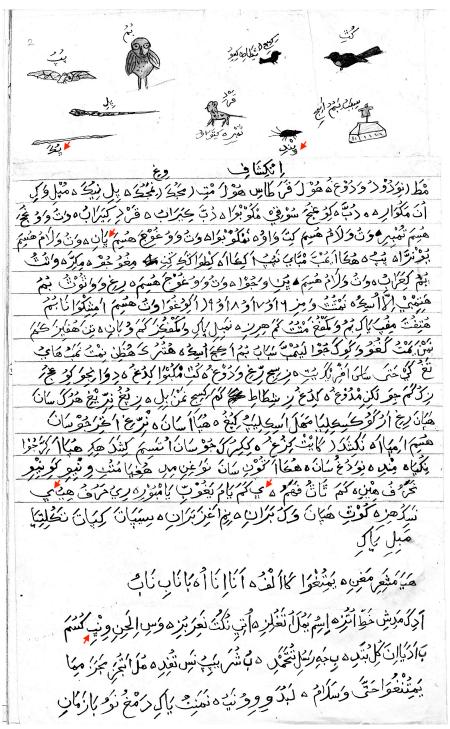


Figure 8. ARABIC LETTER YEH WITH FOUR DOTS BELOW in Swahili Notes and Glosses (MS 47796a) in "nyoka", "nyende" [nyenje], "nyani", etc.

References by Muhamadi Kijuma

- *Qiṣṣati Yūsufu* (Hs. or. 9893). 1913. http://resolver.staatsbibliothekberlin.de/SBB00015E2700000000
- *Qiṣṣat Qādhi* (Hs. or. 9893). 1937. http://resolver.staatsbibliothekberlin.de/SBB00015E2700000000
- Swahili Notes and Glosses (MS 47796a). 1935. http://digital.soas.ac.uk/LSMD000192/00001
- Utendi wa Safāri (SBB Hs. or. 9896). 1937.

Other references

- Mohammad Ibrahim Mohammad Abou Egl, *The life and works of Muhamadi Kijuma*, University of London, 1983. https://eprints.soas.ac.uk/29683/
- Afrikanists Assemble, *Africanist Hall of Fame* | *Afrikanists Assemble* | *Episode 15*, on YouTube, 2022-07-01. https://www.youtube.com/watch?v=qIzcVJDJokU
- Gudrun Miehe & Clarissa Vierke, *Muhamadi Kijuma Texts from the Dammann Papers and other Collections*, Köln: Rüdiger Köppe verlag, 2010.

ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from

http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from

http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest *Roadmaps*.

Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

A. Administrative							
1.Title: Proposal to add Arabic letter for S	Swahili						
2. Requester's name: Denis Moyogo Jacquerye <moyogo@gmail.com></moyogo@gmail.com>							
3. Requester type (Member body/Liaison/Individual contribution): Individual contribution							
4. Submission date:	2024-02-11						
5. Requester's reference (if applicable):							
6. Choose one of the following:							
This is a complete proposal:	YES						
(or) More information will be provided later:	NO						
B. Technical - General							
1. Choose one of the following:							
a. This proposal is for a new script (set of characters):							
Dropped name of perints							
b. The proposal is for addition of character(s) to an existing block:	YES						
Name of the existing block: Arabic Ext	ended-C						
2. Number of characters in proposal:	1						
3. Proposed category (select one from below - see section 2.2 of P&P document	·):						
A-Contemporary B.1-Specialized (small collection) B.2-Specialized	zed (large collection)						
C-Major extinct D-Attested extinct E-Minor extinct G-Obscure or questional							
F-Archaic Hieroglyphic or Ideographic G-Obscure or questional	ole usage symbols						
4. Is a repertoire including character names provided?	YES						
a. If YES, are the names in accordance with the "character naming guidelir	nes" YES						
b. Are the character shapes attached in a legible form suitable for review?	YES						
5. Fonts related:							
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the							
standard?							
Denis Moyogo Jacquerye b. Identify the party granting a license for use of the font by the editors (incl	ude address a mail fin site etc.):						
	•						
6. References:							
a. Are references (to other character sets, dictionaries, descriptive texts etc.	(a) VEO						
provided?	YES						
b. Are published examples of use (such as samples from newspapers, mag							
of proposed characters attached?	YES						
7. Special encoding issue							
Does the proposal address other aspects of character data processing (if a							
presentation, sorting, searching, indexing, transliteration etc. (if yes please	enclose YES						
information)?	(presentation, sorting)						
	sorung)						
8. Submitters are invited to provide any additional information about Properties of	of the proposed Character(s) or						
Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or							
script. Examples of such properties are: Casing information, Numeric information, Currency information, Display							
behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional							
behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such							
information on other scripts. Also see UAX#44: http://www.unicode.org/reports/tr44/ and associated Unicode							
Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the							
Unicode Standard.							

Has this proposal for addition of character(s) been submitted before? If YES explain	NO					
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?	YES					
If YES, available relevant documents: Examples 3. Information on the user community for the proposed characters (for example:						
size, demographics, information technology use, or publishing use) is included?	YES					
Reference: See proposal						
4. The context of use for the proposed characters type of use; common or rare)	YES					
Reference: See proposal						
5. Are the proposed characters in current use by the user community? If YES, where? Reference: See proposal	YES					
6. After giving due considerations to the principles in the P&P document must the proposed	characters be entirely					
in the BMP?	YES					
If YES, is a rationale provided?	Yes					
If Yes, reference: See proposal						
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	yes					
8. Can any of the proposed characters be considered a presentation form of an existing						
character or character sequence?	NO					
If YES, is a rationale for its inclusion provided? If Yes.						
reference:						
9. Can any of the proposed characters be encoded using a composed character sequence of						
existing characters or other proposed characters?	NO					
If YES, is a rationale for its inclusion provided? If Yes.						
reference:						
10. Can any of the proposed character(s) be considered to be similar (in appearance or fund						
to, or could be confused with, an existing character?	NO					
If YES, is a rationale for its inclusion provided?						
If Yes, reference:						
11. Does the proposal include use of combining characters and/or use of composite sequences?	NO					
If YES, is a rationale for such use provided?						
If Yes,						
reference: Is a list of composite sequences and their corresponding glyph images (graphic symbo	nle)					
provided?						
If Yes,						
reference: 12. Does the proposal contain characters with any special properties such as						
control function or similar semantics?	NO					
If YES, describe in detail (include attachment if necessary)						
13. Does the proposal contain any Ideographic compatibility characters? NO NO						
If YES, are the equivalent corresponding unified ideographic characters identified? If Yes,						
reference:						